



# STIC Search Report

EIC 3600

STIC Database Tracking Number: 94803

TO:Roger Pang  
Location: 6U13  
Art Unit : 3681  
Thursday, January 06, 2005

Case Serial Number: 09/012880

From: Etelka Griffin  
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PK5-Suite 804  
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## Search Notes

LITIGATION SEARCH  
#  
6067871

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Terms: [patno=6067871](#) ([Edit Search](#))

012880 (09) 6067871 May 30, 2000

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

**6067871**

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May 30, 2000

Variable resistance shift rail detent assembly and shift control method employing same

**REISSUE:** April 18, 2002 - Reissue Application filed Ex. Gp.: 3681; Re. S.N. 10/124,934 (O.G. June 18, 2002)

September 5, 2003 - Reissue Application filed Ex. Gp.: 3681; Re. S.N. 10/657,058 (O.G. December 9, 2003)

**APPL-NO:** 012880 (09)

**FILED-DATE:** January 23, 1998

**GRANTED-DATE:** May 30, 2000

**ASSIGNEE-AT-ISSUE:** Eaton Corporation, Cleveland, Ohio, United States (US), 02

**ASSIGNEE-AFTER-ISSUE:** January 23, 1998 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., EATON CORPORATION EATON CENTER, 1111 SUPERIOR AVENUE CLEVELAND OHIO 44114, Reel and Frame Number: 008946/0351

**CORE TERMS:** lever, detent, transmission, splitter, ratio, jumpout, rail, shaft, sub, engine ...

**ENGLISH-ABST:**

A mechanical transmission system (10) is provided with a detent mechanism (156/172, 186/196) for applying a selectively variable detent resistance to disengagement of an engaged gear ratio. To provide resistance to shift lever (31) induced jumpout when no intent to shift is sensed, a greater detent resistance is provided, and to provide improved shift quality upon sensing an intent to shift, a lesser detent resistance is provided. The mechanism also may be utilized to maintain the transmission in neutral.

Source: [Legal](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Patents](#) > [U.S. Patents](#) > [Utility, Design and Plant Patents](#) [\[i\]](#)

Terms: [patno=6067871](#) ([Edit Search](#))

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*Patent Cases from Federal Courts  
and Administrative Materials*

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**Patent Number :**

US6067871 A 20000530 [US6067871]

**Title :**

(A) Variable resistance shift rail detent assembly and shift control method employing same

**Patent Assignee :**

(A) EATON CORP (US)

**Patent Assignee :**

Eaton Corporation, Cleveland OH [US]

**Inventor(s) :**

(A) MARKYVECH RONALD K (US); RILEY THOMAS N (US); ORE THOMAS G (US)

**Application Nbr :**

US1288098 19980123 [1998US-0012880]

**Filing Details :**

Cont. of US928234 19970912 [1997US-0928234] (Abandoned)

**Priority Details :**

US1288098 19980123 [1998US-0012880]

US92823497 19970912 [1997US-0928234]

**Intl Patent Class :**

(A) F16H-061/18 F16H-063/36

**EPO ECLA Class :**

F16H-061/24

F16H-063/34

**US Patent Class :**

ORIGINAL (O) : 074335000; CROSS-REFERENCE (X) : 074473210 074473240

074473250

**Document Type :**

Corresponding document

**Citations :**

US1976697; US2767595; US3945458; US4070914; US4388843; US4406356;

US4441379; US4550627; US4593580; US4614126; US4676115; US4920815;

US5000060; US5390561; US5569115; US5661998; US5682790; US5735771;

US5758543; US5904635; US5974354

**Publication Stage :**

(A) United States patent

**Abstract :**

A mechanical transmission system (10) is provided with a detent mechanism (156/172, 186/196) for applying a selectively variable detent resistance to disengagement of an engaged gear ratio. To provide resistance to shift lever (31) induced jumpout when no intent to shift is sensed, a greater detent resistance is provided, and to provide improved shift quality upon sensing an intent to shift, a lesser detent resistance is provided. The mechanism also may be utilized to maintain the transmission in neutral.

**Update Code :**

2000-22

1 / 1 LGST - ©EPO

**Patent Number :**

US6067871 A 20000530 [US6067871]

**Application Number :**

US1288098 19980123 [1998US-0012880]

**Action Taken :**

20020618 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20020418

20031209 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20030905

**Update Code :**  
2003-51

1 / 1 CRXX - ©CLAIMS/RRX  
**Patent Number :**  
6,067,871 A 20000530 [US6067871]  
**Patent Assignee :**  
Eaton Corp  
**Actions :**  
20020418 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20020618  
REISSUE REQUEST NUMBER: 10/124934  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3681

Reissue Patent Number:

20030905 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20031209  
REISSUE REQUEST NUMBER: 10/657058  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3681

Reissue Patent Number:

1 / 1 INPADOC - ©INPADOC  
**Patent Number :**  
US 6067871 A 20000530 [US6067871]  
**Title :**  
VARIABLE RESISTANCE SHIFT RAIL DETENT ASSEMBLY AND SHIFT CONTROL METHOD  
EMPLOYING SAME  
**Inventor(s) :**  
MARKYVECH RONALD K [US]; RILEY THOMAS N [US]; ORE THOMAS G [US]  
**Patent Assignee (Words) :**  
EATON CORP [US]  
**Application Details :**  
US 12880/98-A 19980123 [1998US-0012880]  
**Priority Details :**  
US 12880/98-A 19980123 [1998US-0012880]  
US 928234/97-B1 19970912 [1997US-0928234]  
**Intl. Patent Class. :**  
F16H-063/36; F16H-061/18

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**Patent Number :**  
US6067871 A 20000530 [US6067871]  
**Application Number :**  
US1288098 19980123 [1998US-0012880]  
**Action Taken :**  
20020618 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20020418  
  
20031209 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20030905

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2003-51